

DRAFT Arkwood – Groundwater Remediation Summary

- I. ROD
 - a. Monitoring New Cricket Spring for two years to evaluate natural attenuation
 - b. Evaluate after two years to determine need for treatment
- II. Monitoring and treatment determination
 - a. Monitoring 1995-1997
 - b. Main treatment system design and installation – ozone (specs)
- III. Operations 1997-2005
- IV. Remediation enhancement- Pilot system
 - a. Goal - degrade residual PCP near the source (sinkhole)
 - b. Install injection points
 - c. Inject ozonated water
- V. Operations 2005-2009
 - a. Main treatment system operations continue
 - b. Pilot system operates
 - c. Analytical results – overall decrease in PCP concentrations
 - d. Pilot treatment system operating issues
 - e. Discontinuation of pilot injection of ozonated water
- VI. Operations 2009-present
 - a. Main treatment system operations continue
 - b. Pilot injection of non-ozonated water
 - i. Maintain adequate flow through main treatment system
 - ii. Continue flushing in the sinkhole area
 - c. April 2011 - Discontinuation of pilot operations
 - d. Nov 2011 – Restart pilot injection of non-ozonated water at EPA's request
- VII. Conclusions and recommendations
 - a. Continue main treatment system operations
 - i. ADEQ revised clean-up levels based on pH
 - ii. Analytical results
 - b. Pilot system successfully enhanced degradation in source area
 - c. Discontinue pilot injection of non-ozonated water
 - i. Route make-up water to main treatment system ,as necessary, for low flow conditions
 - ii. Continue monthly sampling for next 6 months to monitor for rebound effects
 - iii. If limited rebound, change to quarterly sampling after 6 months
 - d. Re-evaluate need for treatment at New Cricket Spring periodically